

Innovative Tools for Access:

Enhancing Digital Collections With Emerging Technologies



**CAROLYN F. RUNYON
AMANDA A. HURFORD**

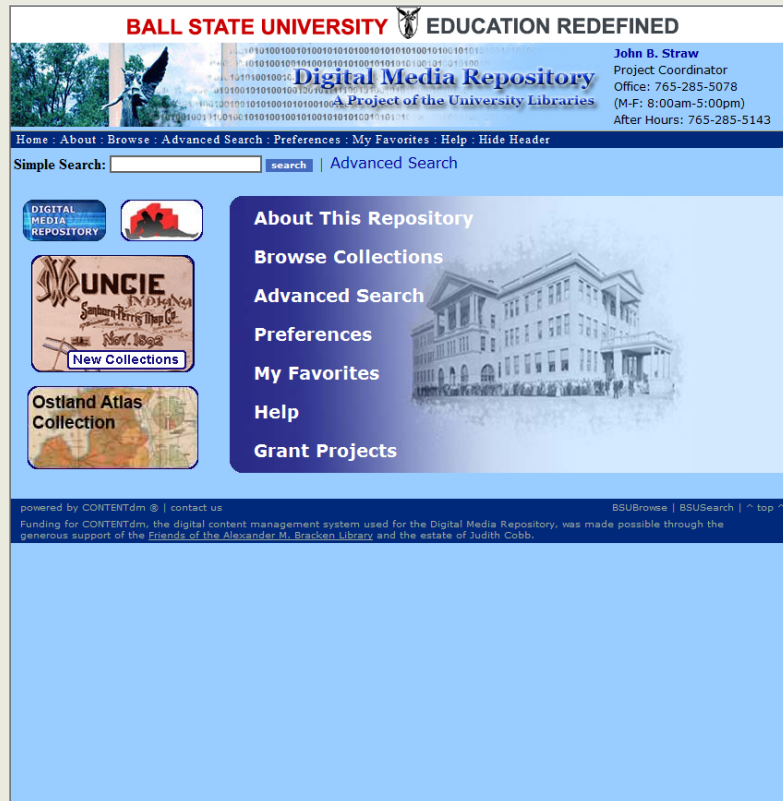
BALL STATE UNIVERSITY LIBRARIES

**ELECTRONIC RESOURCES & LIBRARIES
FEBRUARY 1, 2010**

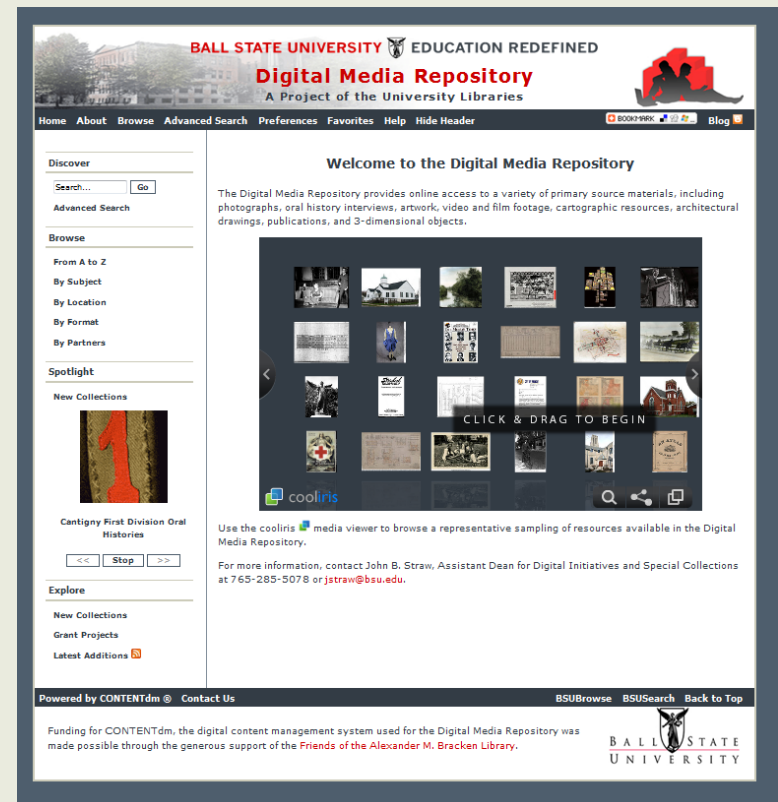


Revision of Web Interface

Old Interface



New Interface

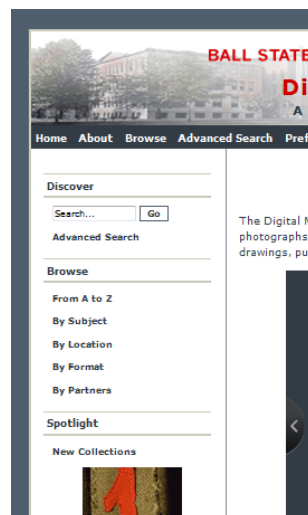


Working Group Requests

Promote Collection Browsing Options

Improve Website Navigation

Provide Additional Search Options



Browse Collections by Subject

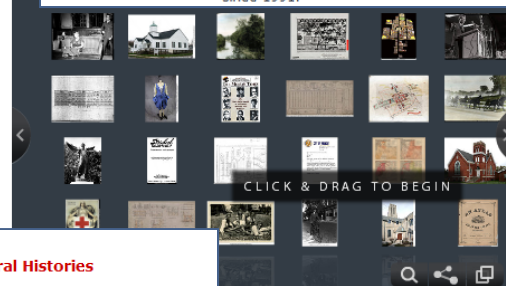
[African American Studies](#) | [Architecture](#) | [Education](#) | [European Studies](#) | [Fine Arts](#) | [Geography](#) | [Journalism](#) | [Literature](#) | [Middletown Studies](#) | [Military History](#) | [Music](#) | [Performing Arts](#) | [Science](#) | [Telecommunications](#)

African American Studies



Muncie Times Newspaper

The *Muncie Times Newspaper* digital collection consists of volumes of the newspaper published by owner and publisher Bea Moten-Foster since 1991.



representative sampling of resources available in the Digital

Assistant Dean for Digital Initiatives and Special Collections

[BSUBrowse](#) [BSUSearch](#) [Back to Top](#)

Digital Media Repository was
created by the Ball State University
Bracken Library.



Cantigny First Division Oral Histories

[Browse](#) [Advanced Search](#)

The Cantigny First Division Oral Histories digital collection includes forty high definition video oral history interviews with veterans of the U.S. Army's First Infantry Division, commonly known as the 'Big Red One.' The goal of the project was to preserve the memories of the soldiers whose military service occurred around the globe since World War II. The interviews were conducted with veterans then residing in Indiana, Ohio, and Kentucky.

The interviews were conducted by students Chris Reidy, Steven Brown, and Rachel (Fulton) Coleman from the Ball State University History Department under the supervision of history professors Dr. Michael William Doyle and Dr. David Ulbrich. The Ball State University Teleplex videotaped the interviews and they were transcribed by Ball State University Libraries staff.

Copies of the interviews and transcripts are also available at the Robert R. McCormick Research Center at the First Division Museum in Wheaton, Ill and Ball State University Libraries Archives and Special Collections.

To learn more about the project, watch the *Conversations Across Generations: The Cantigny First Division Oral History Project Summer 2008* video.

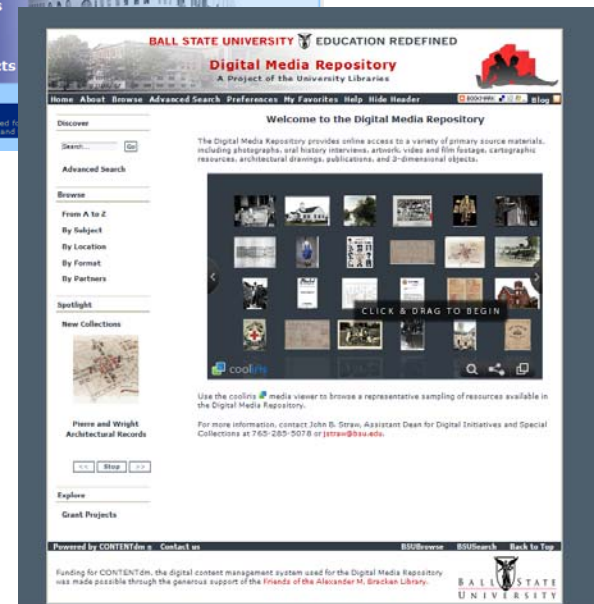
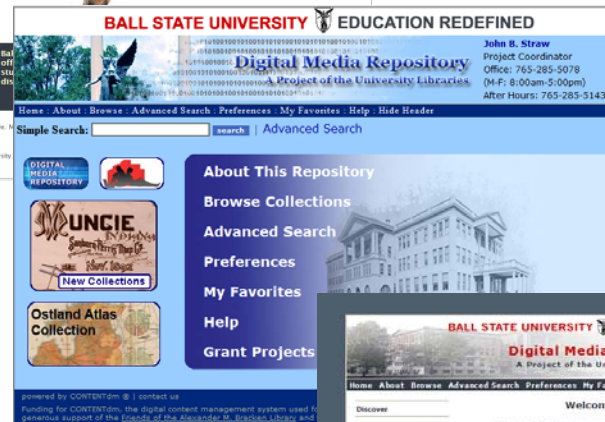
[Archives & Special Collections](#) [First Division Museum at Cantigny](#) [BSU Department of History](#)
Preserving the Army's 'Big Red One'

Added: 01/23/2009

Working Group Requests

Advertise New and Externally Funded Collections

Enhance Marketing and Branding Strategies



Survey of Other Digital Libraries

cooliris Interactive
Media Viewer

AddThis Social
Bookmarking Tool

cooliris

DESKTOP MOBILE FOR YOUR SITE SUPPORT LAUNCH

cooliris for your site

Your Site. Your Wall.

Create your own 3D wall

with Cooliris Express

Works great on:

With Cooliris Express, put a 3D wall on your blog or site in seconds.

1



Your content. Everywhere.

AddThis is a free way to boost traffic back to your site by making it easier for visitors to share your content. [AddThis Features](#)

New! AddThis supports Flash widget sharing. [More](#)

Try it! [SHARE](#)   

1. Select your service.

- ☒ Website
- ☐ WordPress
- ☐ Blogger
- ☐ MySpace

2. Select a button style.

- ☒ [SHARE](#)   
- ☐ [SHARE](#)
- ☐ [Share](#) |   
- ☐ [Share](#)

3. You're done!

[Get Your Button](#)

Looking for more services, button styles or advanced features? [More options](#)



DMR Website and Visitor Statistics

Screen Resolutions

Java Enabled Browsers

Flash Versions

Top Content

Referral Sites


2008-2009 Academic Year

- 95.35 % of site visitors in had 940px+ screen resolutions.
- 95.51% of site visitors accessed the DMR with java-enabled browsers.
- 100% of site visitors had some version of flash installed
- Browsing Preferences
 - 85%, A-Z List of Collections Titles
 - 10%, Subject and/or Location
 - 3%, Format
 - 2%, Department
- Facebook was the 7th most popular referral site. *AddThis* bookmarking tool may boost referrals from social networking sites.

Anecdotal Evidence

Brief Collection
Descriptions on Browse
Pages

The screenshot shows the Ball State University Digital Media Repository website. The header features the university's name and logo, along with the tagline "EDUCATION REDEFINED". Below the header is a navigation bar with links to Home, About, Browse, Advanced Search, Preferences, My Favorites, Help, and Hide Header. A search bar is located on the left side of the page, and a "Go" button is next to it. The main content area is divided into two columns. The left column contains a "Discover" section with a search bar and a "Go" button, an "Advanced Search" section, a "Browse" section with links to "From A to Z", "By Subject", "By Location", "By Format", and "By Partners", and a "Spotlight" section. The right column contains a "Browse Collections from A to Z" section with a list of letters from 0-9 to A-Z. Below this, there are three collection entries: "376th Heavy Bombardment Group Oral Histories" with a thumbnail image of a shield, "Anatomical Models" with a thumbnail image of a spiral, and "Architecture Images" with a thumbnail image of a building. Each entry includes a brief description of the collection.

BALL STATE UNIVERSITY  **EDUCATION REDEFINED**

Digital Media Repository
A Project of the University Libraries

[Home](#) [About](#) [Browse](#) [Advanced Search](#) [Preferences](#) [My Favorites](#) [Help](#) [Hide Header](#) [BOOKMARK](#) [Facebook](#) [Twitter](#) [Blog](#)

Discover


Advanced Search

Browse

[From A to Z](#)
[By Subject](#)
[By Location](#)
[By Format](#)
[By Partners](#)

Spotlight

New Collections




376th Heavy Bombardment Group Oral Histories

[Back to Top](#)

Browse Collections from A to Z

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z


0-9



376th Heavy Bombardment Group Oral Histories


The 376th Heavy Bombardment Group Oral Histories includes audio and video oral histories with veterans serving in the 376th Heavy Bombardment Group during World War II.

A




Anatomical Models

The Anatomical Models digital collection features more than 80 anatomical models and study guides available from the Science-Health Science Library at Ball State University.



Architecture Images

The Architecture Images digital collection features a representative sampling of more than 119,000 slides relating to architecture, landscape architecture, urban planning, and, to a lesser extent, art.




Art History Images


[<<](#) [Stop](#) [>>](#)

Future Improvements

Latest Additions RSS Feed



Digital Media Repository Researcher Survey



BALL STATE UNIVERSITY  **EDUCATION REDEFINED**

Digital Media Repository
A Project of the University Libraries

Home About Browse Advanced Search Preferences Favorites Help Hide Header

BOOKMARK  Blog 

Discover

Search...

Advanced Search

Browse

From A to Z

By Subject


By Location

By Format

By Partners

Spotlight

New Collections




Middletown Women's History Collection

Explore


New Collections

Grant Projects

Latest Additions 


Welcome to the Digital Media Repository

The Digital Media Repository provides online access to a variety of primary source materials, including photographs, oral history interviews, artwork, video and film footage, cartographic resources, architectural drawings, publications, and 3-dimensional objects.




CLICK & DRAG TO BEGIN

cooliris


Use the cooliris  media viewer to browse a representative sampling of resources available in the Digital Media Repository.

For more information, contact John B. Straw, Assistant Dean for Digital Initiatives and Special Collections at 765-285-5078 or jstraw@bsu.edu.

Powered by CONTENTdm  Contact Us

BSUBrowse BSUSearch Back to Top

Funding for CONTENTdm, the digital content management system used for the Digital Media Repository, was made possible by the Ball State University Libraries.



Implementation of Emerging Technologies



EXISTING LOCAL CUSTOMIZATIONS

NEW CUSTOMIZATIONS

WEB 2.0 TECHNOLOGIES

Technologies Already in Place



- **“Keepers” integrated into the new interface:**
 - User Friendly Viewers/Players
 - ✦ Zoomify
 - ✦ Embedded Media
 - Specialized Content: Google Maps
 - Local PPT Generator

User Friendly Viewers/Players



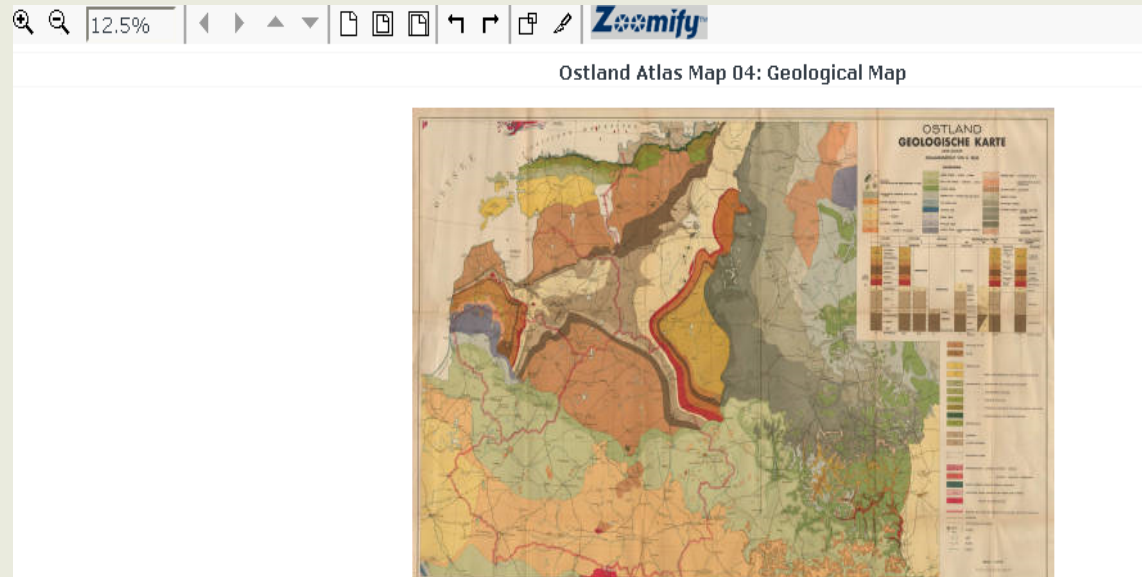
- **CONTENTdm out of the box**
 - Images: Toolbars not easy to zoom and pan
 - Audio/Video: “Access this item” involves an extra step to access multimedia files
- **Improvements Needed = Local Customizations**

User Friendly Viewers/Players



- **Zoomify**

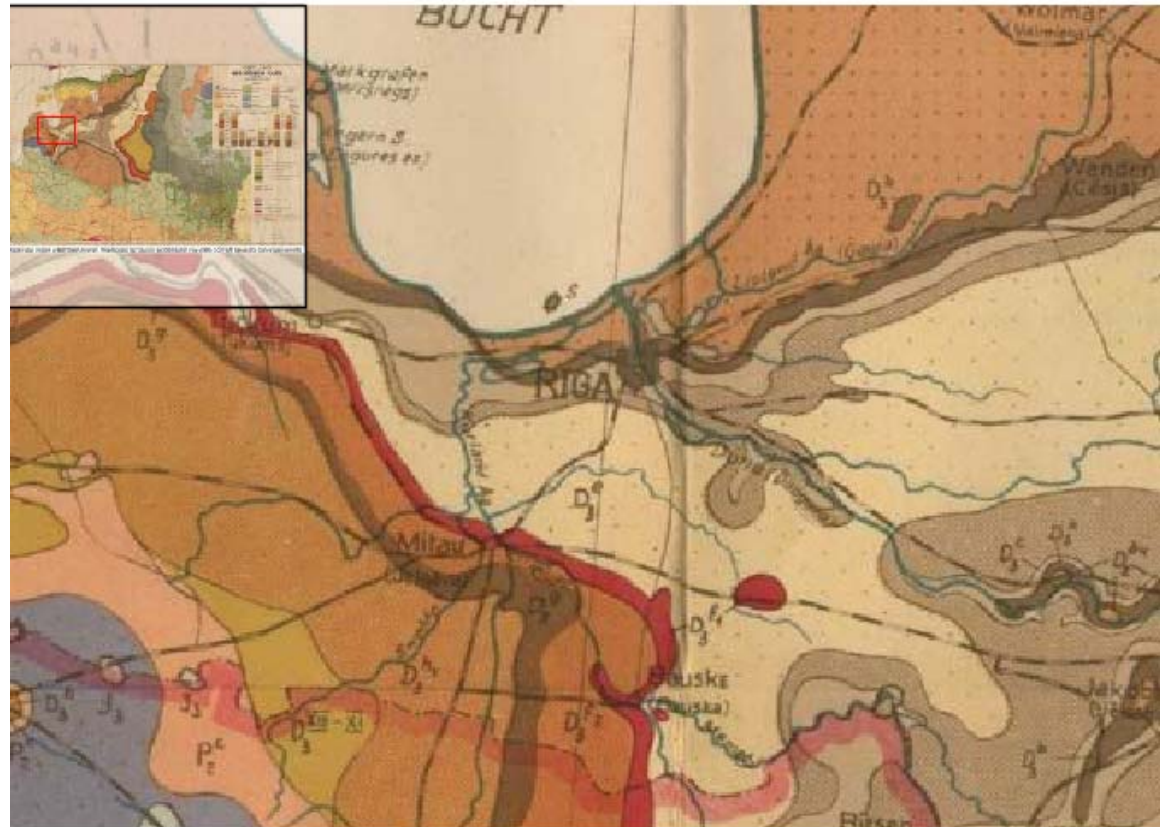
- Easy access button in the toolbar
- View, zoom, and pan efficiently
- Ability to save and print zoomed portion
- Original viewer still intact



Zoomify Example

Ostland Atlas Map 04:
Geological Map

*Ostland Atlas and
Statistical Report
Collection*



User Friendly Viewers/Players



- **Embedded Media Players**
 - Allowing audio and video to play in-line
 - No confusing links to follow
 - Media and transcript available simultaneously

Embedded Player Example: Audio

McKeighen, Charlie (Audio Interview and Transcript)

Middletown Oral Histories Collection

McKeighen, Charlie (Audio Interview and Transcript)



Are you having a problem playing the media above? [Click here](#) to play it in an external player

[Open PDF in new window](#) | [Go to PDF description](#)

A screenshot of a web browser window. The browser's address bar shows a URL. The page title is "Archives and Special Collections" with a subtitle "University Libraries". The main content area is titled "Muncie Labor Oral History Project" and includes the following information: "R 76", "Interviewer: Warren Vander Hill", "Interviewee: Charlie McKeighen", and "Date of Interview: January 5, 2006". Below this, a note states: "This interview has been edited for content. The transcript differs from the audio in some sections." The page also features a sidebar with a search bar and a list of items. The browser's toolbar shows various icons for printing, saving, and navigation, along with a zoom level of 64.2% and a "Sign" button.

Embedded Player Example: Video

Alverson, William David (Video Interview and Transcript)

376th Heavy Bombardment Group Oral Histories Collection

Alverson, William David (Video Interview and Transcript)



Are you having a problem playing the media above? [Click here](#) to play it in an external player

[Open PDF in new window](#) | [Go to PDF description](#)

A PDF viewer interface showing a transcript of the interview. The viewer has a toolbar at the top with icons for printing, saving, and navigating. The transcript is displayed in a two-column format. The first column contains the speaker's name, and the second column contains the text of the interview. The transcript is as follows:

Alverson: No, plenty to eat. That's right, just not allot of variety. Oh, we had quite a bit, you know we raised quite a bit of stuff, and so on and so forth. We didn't suffer, except for lack of money.

Hobbs: What were you doing when you heard that Pearl Harbor had been attacked?

Alverson: I don't remember for sure at all. I know—I know I was at home. It happened, I expect I went to church after that, I know my folks did, I might not have, but oh, yeah. That was a great blow.

[2:00]

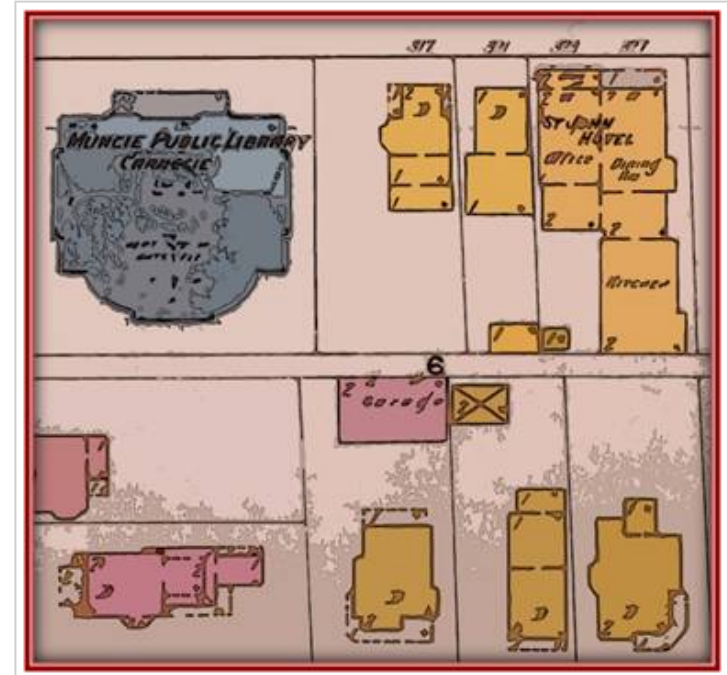
And I decided that that I must go. You know. I didn't have to. We were farming on a large scale at that time for that day, and I was the only help my father had left except what he could hire. When he asked me about what I wanted to do he was

Specialized Content: Google Maps

- Google Maps

- Using My Maps function
- In collaboration with University Libraries' GIS Specialist
- Gives a collection spatial context
- Smarter than simple browsing
- New ways to enter the collection

Google Maps Technology Used for Online Map Collection

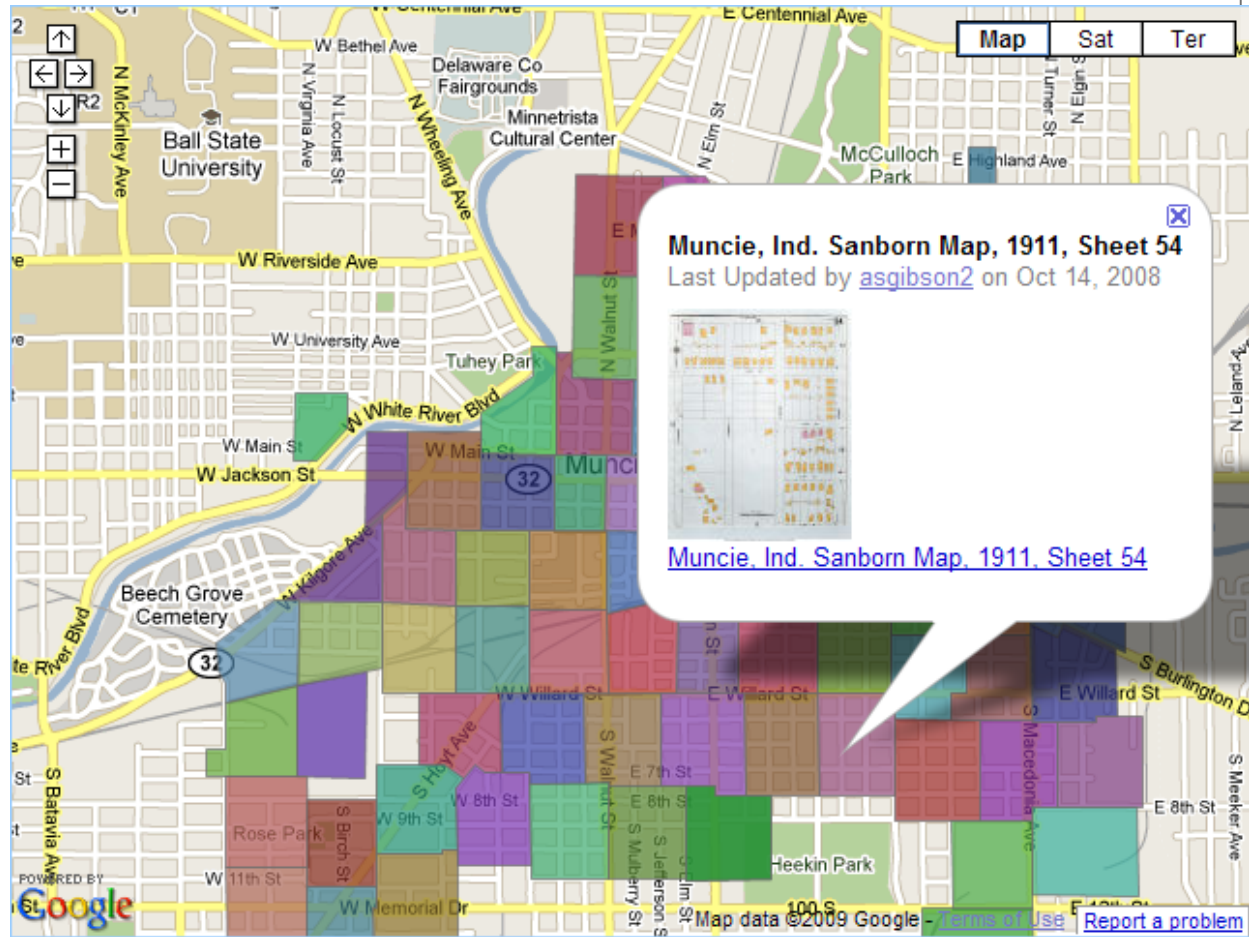


University Libraries Use Google's My Maps to Create Interactive Maps for the Sanborn Map Collection of Muncie in the Digital Media Repository

Google Maps Example

**Muncie, Ind.
Sanborn Map, 1911,
Sheet 54**

***Muncie Sanborn
Fire Insurance
Maps***



Local PPT Generator

- No plug in needed
- Mac compatible
- Open XML based
- Allows authentication for licensed images
- Lets users choose metadata fields to import like CDM version
- Link valid for 24 hours

BSU Users LOGIN Here
(for access to full-sized images*)

Please Select a Desired Layout and Click Next

☐ Image Only

☐ Title and Image

☒ Title, Metadata and Image

Please Select Desired Metadata Fields

Anatomical Models

select all clear all

☐ Creator

☒ Subject - LCSH

☐ Original Date

☒ Systems Represented

☐ Time Period

☒ Media Type

☐ Original Format

☒ Collection

☐ Repository

☒ Copyright

☐ Locate this model in CardCat

☐ File Format

☒ Digital Identifier

Previous Next

Next

Please Wait . . .
While We Create Your Presentation

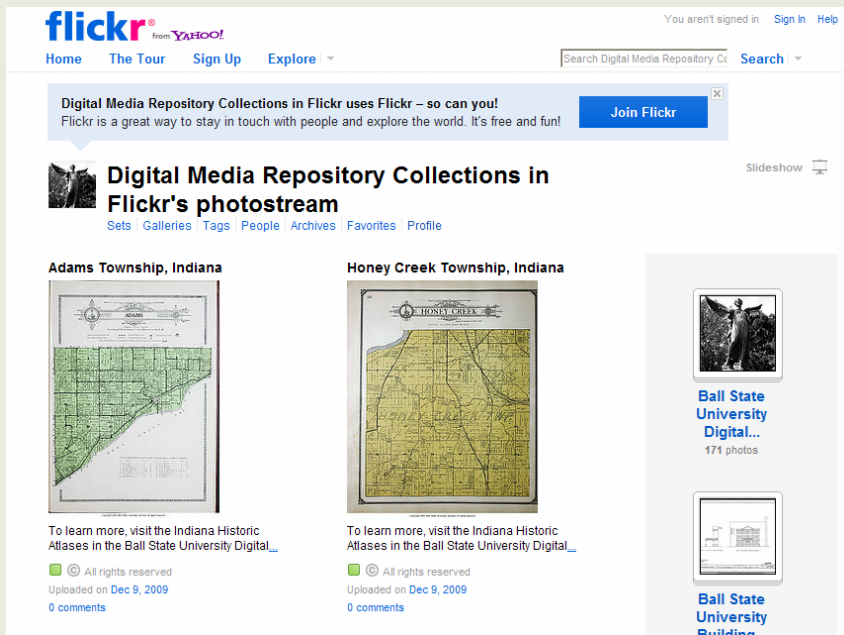
Please click here to download your presentation file
(0.8MB)

The link above is only valid for 24 hours.

Previous

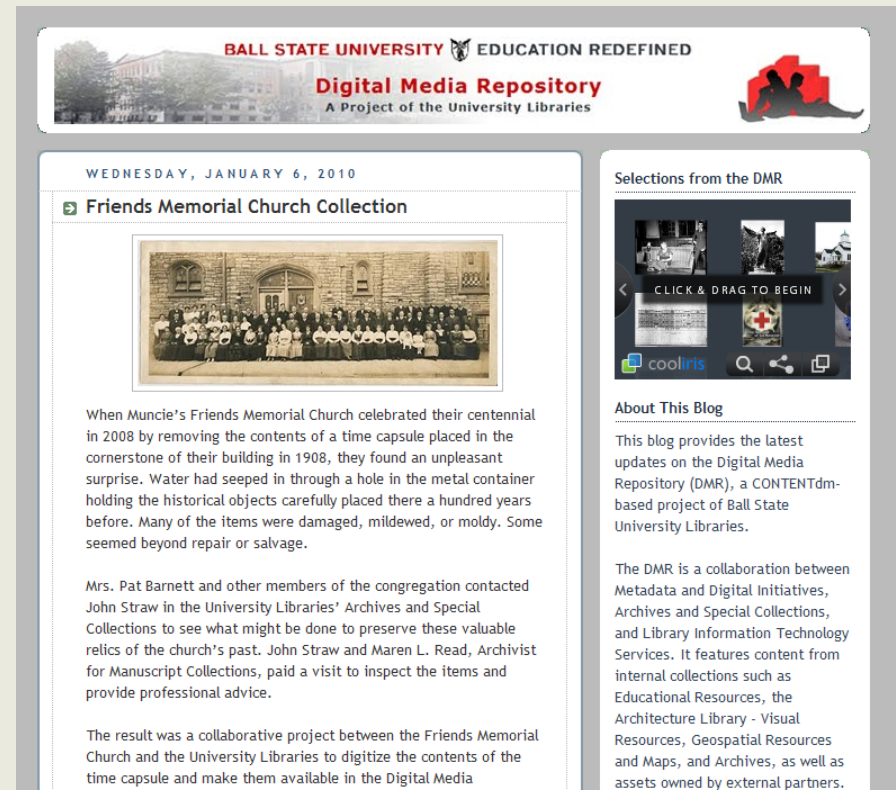
Web 2.0 Technologies

- *AddThis* Social Bookmarking Tool
- *cooliris* 3D Wall
- *Flickr* Photostream



The screenshot shows a Flickr photostream page. At the top, the Flickr logo is visible with the text "from YAHOO!". Below the logo, there are navigation links: Home, The Tour, Sign Up, and Explore. A search bar is present with the text "Search Digital Media Repository Co" and a "Search" button. A banner at the top of the photostream reads "Digital Media Repository Collections in Flickr uses Flickr - so can you! Flickr is a great way to stay in touch with people and explore the world. It's free and fun!" with a "Join Flickr" button. The main content area displays two photo thumbnails. The first is titled "Adams Township, Indiana" and shows a historical map. The second is titled "Honey Creek Township, Indiana" and also shows a historical map. Below each map, there is a caption: "To learn more, visit the Indiana Historic Atlases in the Ball State University Digital..." and a copyright notice: "© All rights reserved. Uploaded on Dec 9, 2009. 0 comments". To the right of the maps, there is a small thumbnail of a person and a larger thumbnail of a building, both with captions: "Ball State University Digital..." and "171 photos".

- Digital Media Repository Blog



The screenshot shows the Digital Media Repository Blog. At the top, there is a banner for "BALL STATE UNIVERSITY EDUCATION REDEFINED" and "Digital Media Repository A Project of the University Libraries". Below the banner, the date "WEDNESDAY, JANUARY 6, 2010" is displayed. The main content area features a post titled "Friends Memorial Church Collection" with a large photo of a group of people in front of a church. The text of the post reads: "When Muncie's Friends Memorial Church celebrated their centennial in 2008 by removing the contents of a time capsule placed in the cornerstone of their building in 1908, they found an unpleasant surprise. Water had seeped in through a hole in the metal container holding the historical objects carefully placed there a hundred years before. Many of the items were damaged, mildewed, or moldy. Some seemed beyond repair or salvage. Mrs. Pat Barnett and other members of the congregation contacted John Straw in the University Libraries' Archives and Special Collections to see what might be done to preserve these valuable relics of the church's past. John Straw and Maren L. Read, Archivist for Manuscript Collections, paid a visit to inspect the items and provide professional advice. The result was a collaborative project between the Friends Memorial Church and the University Libraries to digitize the contents of the time capsule and make them available in the Digital Media". To the right of the main content, there is a sidebar with the title "Selections from the DMR" and a "cooliris" logo. Below this, there is a section titled "About This Blog" which states: "This blog provides the latest updates on the Digital Media Repository (DMR), a CONTENTdm-based project of Ball State University Libraries. The DMR is a collaboration between Metadata and Digital Initiatives, Archives and Special Collections, and Library Information Technology Services. It features content from internal collections such as Educational Resources, the Architecture Library - Visual Resources, Geospatial Resources and Maps, and Archives, as well as assets owned by external partners."

Metadata in Collaboration



METADATA REPURPOSING

REVISING PRACTICES FOR ACCESS

ENHANCING EXISTING RECORDS

Repurposing Metadata

Second Life Exhibits

- Middletown Studies Collection and Archives
- Ball State University Museum of Art Gallery



Microsoft Surface Applications

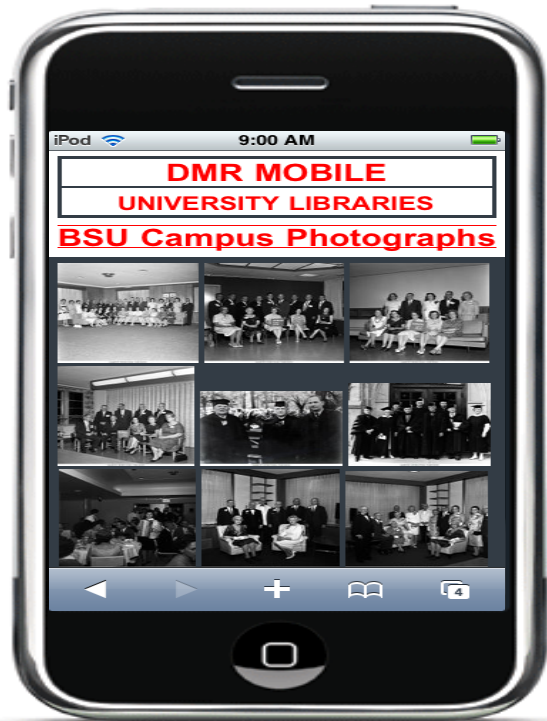
- Ball State University Campus Photographs
- Charles E. Bracker Orchid Photographs



Repurposing Metadata



Mobile DMR



Revising Practices for Access



- Establishment of the Digital Access Management Task Force
- Collaborating to set metadata standards
- Evaluating methods from several points of view
 - Users/Researchers
 - Data Portals
 - Archivists
 - Metadata Librarians
- Establishment of Cardinal Core local metadata standards

Enhancing Existing Records



- Making the most of faceted search with nickname standardization
- Creating a preferred order of fields
- Subject conformity
- Name conformity
- Addition of fields
- Planning for new collections - Still Images Database
 - Promotes a collaborative and efficient workflow

Implementation of Emerging Tech and Improved Interface = Collaboration



- Archivists
- Metadata & Digital Initiatives Librarians
- Library & Information Technology
 - CONTENTdm Administrator
 - Web Developer
 - Programmers
- GIS Specialist
- Public Service Librarians
- University Teleplex
- Institute for Digital Intermedia Arts and Animation
- University Computing Services
- Department of Computer Science

Contact Us



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- Carolyn Runyon
cfrunyon@bsu.edu